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IN THE CLAIMS:

Claims 1 - 22 (previously cancelled)

- 23. (previously amended) A process for olefin polymerization comprising contacting an olefin with a catalyst composition comprising (A) a solid catalyst component comprising a transition metal-containing metallocene compound, a transition metal-containing non-metallocene compound, a magnesium compound and a polymeric support material, and (B) a cocatalyst comprising an aluminum compound, said contacting occurring under conditions sufficient for the production of olefin polymers.
- 24. (original) The process of Claim 23 wherein the olefin polymers comprise homopolymers of olefins or copolymers of olefins and alpha olefins.
- 25. (original) The process of Claim 24 wherein the olefin polymers are multimodal.
- 26. (previously amended) A process for preparing an olefin polymerization catalyst composition comprising combining support polymer particles, a magnesium compound, a transition metal-containing metallocene compound, and a transition metal-containing non-metallocene compound, to provide a solid catalyst component, and combining the solid catalyst component with a cocatalyst compound to provide an olefin polymerization catalyst composition.
- 27. (previously amended) The process of Claim 26 wherein the solid catalyst component is substantially free of aluminum before combination with said cocatalyst compound.
- 28. (currently amended) The eatalyst composition process of Claim 23 wherein the said metallocene compound is represented by the general formula (Cp)_zMR_wX_y wherein Cp represents unsubstituted or substituted cyclopentadienyl ring, M represents a Group

IVB or VB transition metal, R represents a hydrocarbyl group containing 1 to 20 carbon atoms, X represents a halogen atom, and $1 \le z \le 3$, $0 \le w \le 3$, $0 \le y \le 3$.

- 29. (currently amended) The entallyst composition process of Claim 28 wherein the said metallocene compound is bis(cyclopentadienyl)zirconium methyl chloride, bis(cyclopentadienyl)zirconium dichloride, bis(cyclopentadienyl)titanium methyl chloride or bis(cyclopentadienyl)titanium dichloride.
- 30. (previously added) The process of claim 23 wherein the polymer particles have a mean particle diameter of 5 μ m to 1000 μ m, a pore volume of at least 0.1 cm³/g and a surface area of from 0.2 m²/g to 15 m²/g.
- 31. (previously added) The process of Claim 30 wherein the polymer particles comprise polyolefins, polyvinylchloride, polyvinylalcohol or polycarbonate.
- 32. (previously added) The process of Claim 31 wherein the polymer particles are polyvinylchloride.
- 33. (currently amended) The catalyst composition process of Claim 32 wherein the polyvinylchloride particles are spherical in shape.
- 34. (previously added) The process of claim 23 wherein the non-metallocene compound comprises titanium tetrachloride, zirconium tetrachloride and/or vanadium tetrachloride.
- 35. (previously added) The process of Claim 34 wherein Ti and Zr are present in the composition in a molar ratio of Ti to Zr of about 3:1 to about 30:1.
- 36. (previously added) The process of Claim 29 wherein the magnesium compound comprises diethylmagnesium, dibutylmagnesium, butylethylmagnesium,

dihexylmagnesium, butyloctylmagnesium, ethylmagnesium chloride, butylmagnesium chloride, hexylmagnesium chloride or mixtures thereof.

- 37. (previously added) The process of Claim 36 wherein the cocatalyst (B) aluminum compound is represented by the general formulas $R^6_n A1X_{3-n}$ and R^7R^8A1 -O-AIR 9_2 , wherein R^6 , R^7 , R^8 and R^9 each independently represent a hydrocarbyl group having 1 to 10 carbon atoms; X represents a halogen atom and n represents a number satisfying $0 \le n \le 3$.
- 38. (previously added) The process of Claim 37 wherein the cocatalyst (B) aluminum compound comprises a mixture of trialkylaluminum and an alkyl alumoxane.
- 39. (previously added) The process of Claim 26, wherein the metallocene compound is represented by the general formula $(Cp)_zMR_wX_y$ wherein Cp represents unsubstituted or substituted cyclopentadienyl ring, M represents a Group IVB or VB transition metal, R represents a hydrocarbyl group containing 1 to 20 carbon atoms, X represents a halogen atom, and $1 \le z \le 3$, $0 \le w \le 3$, $0 \le y \le 3$.
- 40. (previously added) The process of Claim 39 wherein the polymer particles have a mean particle diameter of 5 μ m to 1000 μ m, a pore volume of at least 0.1 cm³/g and a surface area of from 0.2 m²/g to 15 m²/g.
- 41. (previously added) The process of Claim 40 wherein the polymer particles are comprised of polyvinylchloride and are spherical in shape.
- 42. (previously added) The process of Claim 41, wherein the magnesium compound comprises diethylmagnesium, dibutylmagnesium, butylethylmagnesium, dibutylmagnesium, butylethylmagnesium, butyloctylmagnesium, ethylmagnesium chloride, butylmagnesium chloride, hexylmagnesium chloride or mixtures thereof.